

Edwards et al. *BMC Proceedings* 2011, **5**(Suppl 6):P274
<http://www.biomedcentral.com/1753-6561/5/S6/P274>



POSTER PRESENTATION

Open Access

Optimising infection prevention and control practice using behavior change: a systematic review

R Edwards^{1*}, E Charani¹, N Sevdalis², B Alexandrou³, E Sibley³, D Mullett³, HP Loveday⁴, LN Drumright¹, A Holmes^{1,5}

From International Conference on Prevention & Infection Control (ICPIC 2011)
Geneva, Switzerland. 29 June – 2 July 2011

Introduction / objectives

Despite significant investment in infection prevention and control (IPC), there has been little consideration of the effectiveness of behaviour change interventions or the application of behavioural theory (BT) or social marketing (SM) to influence healthcare workers' (HCWs) behaviour and to reduce healthcare associated infection.

Methods

This review used a systematic process to assess the effectiveness of intervention studies focused on behaviour change within IPC and the extent to which BT or SM has been applied. Exploratory studies that seek to understand influences on HCWs behaviour in IPC were reviewed. We searched MEDLINE, EMBASE, ASSIA, Business Source Complete, The Cochrane Library, PsycINFO, DARE and HMIC for studies performed between 1999-2009.

Results

Twenty studies met the quality criteria. Few behaviour change interventions of sufficient methodological quality or adequate evaluation design were identified. Of the seven included intervention studies, few explicitly considered BT, used SM or addressed sustainability. Exploratory studies highlighted some key social and cultural determinants of HCW behaviour in IPC.

Conclusion

The quality of interventions aimed at changing the IPC behaviours of HCWs is poor and there has been limited

application of BT or SM in methodologically robust study designs. We recommend that quality criteria be established and added to existing guidelines to ensure robust design, implementation and reporting of behaviour change interventions in IPC.

Disclosure of interest

None declared.

Author details

¹The National Centre for Infection Prevention and Management, London, UK. ²Department of Surgery and Cancer and Imperial Centre for Patient Safety and Service Quality, Imperial College London, London, UK. ³Dr Foster Intelligence, London, UK. ⁴Faculty of Health & Human Sciences, University of West London, London, UK. ⁵Imperial College Healthcare NHS Trust, London, UK.

Published: 29 June 2011

doi:10.1186/1753-6561-5-S6-P274

Cite this article as: Edwards et al.: Optimising infection prevention and control practice using behavior change: a systematic review. *BMC Proceedings* 2011 5(Suppl 6):P274.

¹The National Centre for Infection Prevention and Management, London, UK
Full list of author information is available at the end of the article